

## REMARKS

### INTRODUCTION

In accordance with the foregoing, claims 6, 13, 15, and 17-20 have been amended. Claims 1-24 are pending and under consideration.

### REJECTIONS UNDER 35 U.S.C. § 112

Claim 17 stands rejected under 35 U.S.C. § 112, second paragraph, as failing to comply with the enablement requirement, specifically the phrase “adding the first signal and the second signal.”

This phrase has been deleted from claim 17.

Withdrawal of the rejection is requested.

### REJECTION UNDER 35 U.S.C. § 103

Claims 1-24 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over the Alleged Admitted Prior Art (“APA”) in view of U.S. Patent No. 6,559,894 (Omura et al.).

On page 3, the Office Action states:

However, in analogous art, Omura et al. teaches a channel estimation unit estimating challenge estimation values using a received signal inputted thereto and a generated field-synchronizing signal and using the channel estimation to initialize the filter coefficients.

Omura discusses a non-analogous art of a Multiple Channels per Carrier (MCPC) for a digital TV (col. 1, lines 25-30 and 50-52). Fig. 3 of Omura illustrates the occurrence of multipath signals, which are two or more paths causing jitter and ghosting in a terrestrial broadcast system having both fixed and mobile objects (col. 5, lines 1-3). As shown in Fig. 3 of Omura, the multipath signals are transmitted in *all* directions from a broadcast tower 302 (col. 5, lines 1-4). Omura describes creating a filter to overcome the effects of multipath distortion (col. 5, lines 25-28). Omura discusses a complex corrector and estimator section 512 (col. 7, lines 6-10). However, Omura does not teach or suggest “a single carrier receiver.” Omura would not apply to the APA because the present application is related to a single carrier receiver (see, for example, Fig. 1 and Para. 3).

Neither the APA nor Omura, individually or combined, recite “...a channel estimation unit estimating channel estimation values using a received signal inputted thereto and a generated field synchronizing signal” as recited, for example, in amended, independent claim 1.

Withdrawal of the rejection is requested.

CONCLUSION

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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